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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Appli | icant's | or ag | ent's file reference | FOR FURTHER AC | CTION | See Notificatio Preliminary Ex | n of Transmittal of International amination Report (Form PCT/IPEA/416) |
|--|--|-------------|--|--|--------------------------------|-----------------------------------|---|
| International application No. PCT/GB 03/03583 | | | | International filing date (day/month/year) Priority date (day/month/year) 14.08.2003 Priority date (day/month/year) 30.08.2002 | | | Priority date (day/month/year) 30.08.2002 |
| | nationa SF6/00 | | ent Classification (IPC) or bo | oth national classification a | and IPC | - | <u></u> |
| Appli BP (| | MICA | LS LIMITED et al. | | | | |
| 1. | This Auth | inter | national preliminary exar and is transmitted to the | nination report has been applicant according to a | n prepar Article 3 | red by this Inte 6. | rnational Preliminary Examining |
| 2. | This | REP | ORT consists of a total of | f 4 sheets, including th | is cover | sheet. | |
| | This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). | | | | | | |
| | These annexes consist of a total of sheets. | | | | | | |
| 3. | This | repo | rt contains indications rel | ating to the following ite | ems: | | |
| | 1 | \boxtimes | Basis of the opinion | | | | |
| | Ħ | | Priority | | | | |
| • | Ш | | Non-establishment of o | pinion with regard to no | ovelty, ir | ventive step a | nd industrial applicability |
| | IV | | Lack of unity of invention | on | | | • |
| | ٧ | Ø | Reasoned statement us citations and explanation | nder Rule 66.2(a)(ii) wit ons supporting such sta | h regard tement | d to novelty, inv | ventive step or industrial applicability; |
| | VI | | Certain documents cite | d | | | |
| | VII | | Certain defects in the in | nternational application | | | |
| | VIII | | Certain observations or | n the international applic | cation | | |
| Date | of sub | nissio | n of the demand | | Date of | completion of thi | s report |
| 12.03.2004 | | | | 24.08. | 2004 | | |
| Name and mailing address of the international | | | | 1 | Authorized Officer | | |
| preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | | | 6 epmu d | | en-Mies, K ne No. +49 89 23 | 399-8525 | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/03583

| I. | Basis | of the | report |
|----|--------------|--------|--------|
|----|--------------|--------|--------|

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

| | De | escription, Pages | | | | | | | |
|----|-------------|--|--|--|--|--|--|--|--|
| | 1-2 | 22 | as originally filed | | | | | | |
| | Ci | Claims, Numbers | | | | | | | |
| | 1- | 16 | as originally filed | | | | | | |
| | Dr | awings, Sheets | | | | | | | |
| | 1/5 | -5/5 | as originally filed | | | | | | |
| 2. | Wi lan | With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. | | | | | | | |
| | Th | These elements were available or furnished to this Authority in the following language: . ,which is: | | | | | | | |
| | | | ranslation furnished for the purposes of the international search (under Rule 23.1(b)). | | | | | | |
| | | the language of pub | plication of the international application (under Rule 48.3(b)). | | | | | | |
| | | the language of a tr Rule 55.2 and/or 55 | anslation furnished for the purposes of international avaliminates and in the purposes of international avaliminates are also as a second of the purposes of international avaliminates are also as a second of the purposes of international avaliminates are also as a second of the purposes of international avaliminates are also as a second of the purposes of international avaliminates are also as a second of the purposes of international avaliminates are also as a second of the purposes of international avaliminates are also as a second of the purpose of the | | | | | | |
| 3. | Wit inte | h regard to any nucl rnational preliminary | eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing: | | | | | | |
| | | contained in the inte | ernational application in written form. | | | | | | |
| | | filed together with the | ne international application in computer readable form. | | | | | | |
| | | furnished subseque | ntly to this Authority in written form. | | | | | | |
| | | | ntly to this Authority in computer readable form. | | | | | | |
| | | The statement that in the international a | the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished. | | | | | | |
| | | The statement that the listing has been furn | he information recorded in computer readable form is identical to the written sequence ished. | | | | | | |
| 4. | The | amendments have r | esulted in the cancellation of: | | | | | | |
| | | the description, | pages: | | | | | | |
| | | the claims, | Nos.: | | | | | | |
| | | the drawings, | sheets: | | | | | | |
| | | | | | | | | | |



International application No.

PCT/GB 03/03583

| | This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)). |
|--|---|
| | (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.) |

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims
1-16

No: Claims

Inventive step (IS)

Yes: Claims
1-16

No: Claims

Industrial applicability (IA)

Yes: Claims
1-16

No:

Claims

2. Citations and explanations

see separate sheet

ad item V.:

None of the documents cited in the international search report discloses or fairly suggests a process for stripping residual volatile compounds contained in a thermoplastic polymer or an apparatus for carrying out said process as claimed in the present application.

In particular, D1 (EP-A-1 084 739) does not disclose a spray device at the end of the addition line introducing the foaming agent. Furthermore, it is one of the characteristic features of the apparatus according to D1 that the static mixer opens directly into the expansion chamber.

D2 (EP-A-905 149) discloses a process wherein the foaming agent is added to the polymer melt by way of an addition nozzle apparatus in a direction opposite to the flow of the polymer melt. It is explicitly stressed that addition of the foaming agent in the same direction as the polymer melt flow is disadvantageous.

A spraying device at the end of the feed line for the foaming agent is neither mentioned nor suggested.

The presently claimed process has been shown to allow for an effective reduction of volatile residual compounds.

The subject matter of claims 1 - 16 of the present application has accordingly been found to fulfil the requirements of Article 33(2) - (4) PCT.